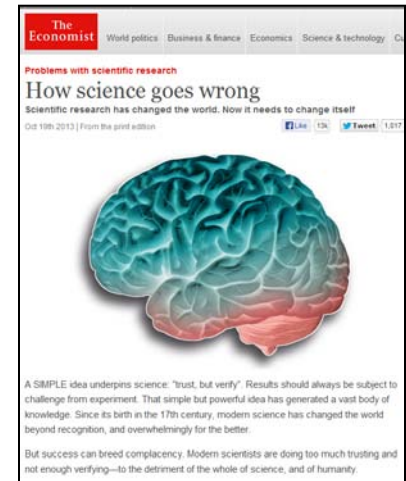# Enhancing Reproducibility and Transparency Initiative

- Reproducibility and transparency of research findings have been noted as issues in multiple publications.

- These issues have been observed in both clinical and preclinical research.

- NIH has developed principles to address the issues
    - Raise community awareness
    - Enhance formal training
    - Protect the quality of funded research with a more systematic review process
    - Address issues of pressure and stability for investigators

The Economist – October 19th, 2013





![NIH] **National Institute of Nursing Research**
*Building the Scientific Foundation for Clinical Practice*

# NIH Pilots to be implemented in 2014

NINR will pilot test a revised biographical sketch and review checklist in [one RFA in 2014](#).

## Biosketch
## Focuses on contributions to science

- *Personal Statement:* why are you well suited for your role on this project?

- *Positions and honors:* No change from SF 424

- *Contributions to Science:* describe up to 5 significant contributions to science (put those most relevant to your application first)
  - List up to 4 relevant publications
  - Explain the background framing the scientific problem
  - Indicate the central findings of your work
  - Describe the influence of the work on the progress of science/health/technology
  - Indicate your role in the work.

- *Research Support:* No change from SF 424

## Review Checklist
## for Grant Applications

- *Experimental Design*
  - Discuss background literature
  - Outline conceptual framework
  - Address use of control groups
  - Clear justification of sample size and route and timing of the intervention delivery
- *Minimizing bias*
  - Describe methods of masking
  - Include strategies for randomization/ stratification
  - Explain how missing data (attrition) will be addressed
  - Plans to ensure reproducibility of data
- *Interpretation of results*
  - Explain statistical methods and possible alternative interpretations of the data
  - Methods for handling missing data
  - Cite literature supporting/refuting potential results